Bruhat Bengaluru
Mahanagara Palike

BRUHAT BENGALURU MAHANAGARA PALIKE, YELAHANKA
PROJECTS DIVISION

Name of Work:- Development of Dobhighat in Ward No.01

MEASUREMENT SHEETS

"FIRST AND FINAL BILL"

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1st and Final Bill

Development of Dobhighat in Ward No.01

Work Order No.: EE(Project)/YNK Zone/WO/83/2020-21 DATED: 17-08-2020

Job code: 001-20-000007

Est. cost: 100.00 lakhs

Name Of contractor: Sri H V Onkarappa

Measurements

Item No	Discription of Item	Unit	No	Length	Breadth	Depth	Qty	Rate	Amount
1	KSRB 2-1 : Earthwork in surface excavation for levelling and lowering the ground manually (Other than foundation of buildings, culverts, road drains and trenches of pipe lines and cables) and removing the excavated stuff to a distance not exceeding 50m and lift up to 1.5m, excavated surface levelled and neatly dressed, disposed earth to be levelled including breaking of clods and neatly dressed as per specifications. specification. No. KBS 2.1(a) / 2.3.1 KSRB 2-1.1: - do - Ordinary soil (Pg no 45 I No								
	Pre Measurements recorded in Vide page no (1)								
	CUM								
						Previous Bill Quantity	0.00		
						Total present bill Quantity	205.99		
						Schedule B Quantity	205.99		
						Reserved Quantity	0.00		
	Quantity to be Claimed in this Bill						**205.99**	**282.34**	**58159.22**
2	KSRB 2-2 : Earthwork excavation by manual means for foundation of buildings, water supply and sanitary lines and electrical conduits etc, either in pits or in trenches 1.5m and above in width, in soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. including breaking of clods complete as per specifications. KSRB 2-2.1: - do - in ordinary soil. No. KBS 2.1(a) / 2.3.5 P.No.06 It No.2.1								
	Pre Measurements recorded in Vide page no (2)								
	Cum								
						Previous Bill Quantity	0.00		
						Total present bill Quantity	66.47		
						Schedule B Quantity	66.47		
						Reserved Quantity	0.00		
						Quantity to be Claimed in this Bill	**66.47**	**425.76**	**28300.27**
3	KSRB 4-1.3 : Providing and laying in position plain cement concrete of Mix 1:4:8 with OPC @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM curing complete as per specifications. Specification No. KBS 4.1, 4.2 P.No.13 It No.4.3								

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	Pre Measurements recorded in Vide page no (3)			
	Cum			
	Previous Bill Quantity	0.00		
	Total present bill Quantity	40.05		
	Schedule B Quantity	928.18		
	Reserved Quantity	0.00		
	Quantity to be Claimed in this Bill	**40.05**	**5785.12**	**231696.66**
4	KSRB 4-1.5 : Providing and laying in position plain cement concrete of Mix M20 with OPC @ 300kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregtes @ 0.43cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM curing complete as per specifications. Specification No. KBS 4.1, 4.2 P.No.13 It No.4.5			
	Pre Measurements recorded in Vide page no (4)			
	Cum			
	Previous Bill Quantity	0.00		
	Total present bill Quantity	65.05		
	Schedule B Quantity	65.05		
	Reserved Quantity	0.00		
	Quantity to be Claimed in this Bill	**65.05**	**6041.38**	**392963.07**
5	KSRB 4.2.7 : Providing and laying in position reinforced cement concrete of design Mix M25 with OPC @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70cum and fine aggregtes @ 0.47cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008.			
	Pre Measurements recorded in Vide page no (5)			
	Cum			
	Previous Bill Quantity	0.00		
	Total present bill Quantity	41.69		
	Schedule B Quantity	41.69		
	Reserved Quantity	0.00		
	Quantity to be Claimed in this Bill	**41.69**	**6854.38**	**285775.47** 285759.00
6	KSRB 4-6.1 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 P.No.16 It No.4.28			
	Pre Measurements recorded in Vide page no (6)			
	Sqm			
	Previous Bill Quantity	0.00		
	Total present bill Quantity	140.85		
	Schedule B Quantity	140.85		
	Reserved Quantity	0.00		
	Quantity to be Claimed in this Bill	**140.85**	**292.54**	**41204.26**

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7	KSRB 4-6.5 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for columns, pillars, post and struts, square / rectangular/ polygon in plan including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 P.No.16 It No.4.32			
	Pre Measurements recorded in Vide page no (7)			
	Sqm			
	Previous Bill Quantity	0.00		
	Total present bill Quantity	346.06		
	Schedule B Quantity	346.06		
	Reserved Quantity	0.00		
	Quantity to be Claimed in this Bill	**346.06**	**517.05**	**178929.29**
8	KSRB 4-6.7 :Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for sides and soffits of beams, beam haunchings, cantilever girders, bressumers and lintels not exceeding 1m in depth including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 P.No.17 It No.4.34			
	Pre Measurements recorded in Vide page no (8)			
	Sqm			
	Previous Bill Quantity	0.00		
	Total present bill Quantity	278.15		
	Schedule B Quantity	278.15		
	Reserved Quantity	0.00		
	Quantity to be Claimed in this Bill	**278.15**	**331.10**	**92094.64**
9	KSRB 4.2.10 : Providing and laying in position reinforced cement concrete of design Mix M20 with OPC @ 24kgs, with 12mm and down size graded granite metal coarse aggregates @0.05175cum and fine aggregtes @ 0.0345cum, with superplastisiser @0.225lts, machine mixed, well compacted for plain chajja of 7.5 cms. average thickness, upto ground floor level, including cost of all materials, labour, HOM finishing, curing, complete but excluding cost of reinforcement as per specifications. Specification No. KBS 4.1, 4.6 P.No.15 It No.4.19			
	Pre Measurements recorded in Vide page no (9)			
	Cum			
	Previous Bill Quantity	0.00		
	Total present bill Quantity	10.13		
	Schedule B Quantity	10.13		
	Reserved Quantity	0.00		
	Quantity to be Claimed in this Bill	**10.13**	**498.91**	**5051.46**

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13	KSRB 5.3-3 : Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at 2m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 P.No.25 It No.5.9				
	Pre Measurements recorded in Vide page no (15)				
	CUM				
	Previous Bill Quantity		0.00		
	Total present bill Quantity		49.96		
	Schedule B Quantity		49.96		
	Reserved Quantity		0.00		
	Quantity to be Claimed in this Bill		**49.96**	**6217.13**	**310591.81**
14	KSRB 5-14: Providing and constructing load bearing wall with solid concrete blocks having block density not less than 1800kg/m3 having a minimum average compressive strength of 4.00 N/mm2 confirming to IS 2185 (Part 1):2005 and constructed with CM 1:4, as per IS 2572:2005 including cost of all materials labour charges, scaffolding, curing, hire charges of machineries etc complete as per specifications KBS No 5.4 - do				
	Pre Measurements recorded in Vide page no (16)				
	Sqm				
	Previous Bill Quantity		0.00		
	Total present bill Quantity		309.35		
	Schedule B Quantity		309.35		
	Reserved Quantity		0.00		
	Quantity to be Claimed in this Bill		**309.35**	**1090.80**	**337440.62**
					337438.00

Contractor

Assistant Engineer

Asst. Executive Engineer

Asst. Executive Engineer
Project Division
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BRUHAT BANGALORE MAHANAGARA PALIKE

Yelahanka zone

Development of Dobhighat in Ward No.01

Detailed Measurements

Sl. No.	Description of work	Unit	No.	Length m	Breadth m	Depth m	Quantity	Rate	Amount
15	KSRB15-3 : Providing 15mm thick cement plaster in single coat with cement mortar to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. KSRB15-3.4 : - do - cement mortar 1:3 P.No.115 It No.15.12 Measurement taken on 12/6/23								
	Ground Floor	SQM							
	External walls		4	12.3		3.95	194.34		
	Parapet wall internal		4	11.9		0.6	28.56		
	Chajja		10	1.9		1	19.00		
	--do--		1	2.8		1	2.80		
	Deductions								
	Door		-1	2.4		2.5	-6.00		
	Windows		-11	1.5		1.2	-19.80		
	Ventilators		-3	0.6		0.6	-1.08		
	Compound wall		2	9.3		1.85	34.41		
	--do--		2	7.9		1.85	29.23		
	--do--		2	30		1.85	111.00		
	--do--		2	14.75		1.85	54.58		
	--do--		2	36.7		1.85	135.79		
	--do--		2	2.5		1.85	9.25		
	--do--		2	17.9		1.85	66.23		
	--do--		2	1.3		1.85	4.81		
	Top		1	120.35		0.15	18.05		
	Ground Floor								
	Room 1		1	11.90	11.90		141.61		
	Beam sides		4	11.90	0.30		14.28		
	Staircase		1	10.55	1.00		10.55		
					Net Qty		847.61	265.33	224895.70
16	KSRB15-3 : Providing 18mm thick cement plaster in single coat with cement mortar to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. KSRB15-3.7 : - do - cement mortar 1:3 P.No.116 It No.15.15 12/6/23								
	Ground Floor	SQM							
	Room 1		4	11.90		3.20	152.32		
	Deductions								
	Door		-1	2.4		2.5	-6.00		
	Windows		-11	1.5		1.2	-19.80		
	Ventilators		-3	0.60		0.60	-1.08		
					Net Qty		125.44	312.95	39256.45

Executive Engineer
Project Division
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A.E.E. (Project)

Contractor

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Assistant Engineer

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Assistant Executive Engineer

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Development of Dobhighat in Ward No.01
Detailed Measurements

17	KSRB 7.5 : Providing and fixing pull and push type rolling shutters of approved make out of 18 guage, 75mm wide cold rolled steel laths of convex corrugation, with side guides and bottom rail, with interlocking arrangements for steel laths by means of alternate clips, suspension shaft with High tension coil type springs two numbers, mounted on specially designed pipe shaft, with bracket plates, guide channels, ball bearing arrangements, for inside & outside locking with push & pull operations complete including pulling hooks, 4Nos. handles with all fittings and accessories, painted with a coat of red lead paint (without top cover) cost of materials, labour, HOM complete as per specifications. Shutter size 3mx2.8 m Specification No. KBS 7.10 / 7.12 P.No.33 It No.7.5 12/6/23								
	Ground Floor								
	Rolling shutters	SQM							
			1	2.40		2.5	6.00		
					Net Qty		6.00	2956.06	17736.36
19	KSRB 7.9 : Providing and fixing M.S.grill work for windows and ventilators using M.S. flats, or M.S. square rods, or combination of M.S. flats and square rods as per approved design, drawing including cutting steel sections and welding the same to required pattern with a coat of red lead primer, cost of materials, fixtures, labour and HOM complete as per specifications. Specification No. KBS 7.12 P.No.34 It No.7.9 12/6/23								
	Ground Floor								
	Window M S Grill	Kg							
	Ventilators		11	1.50		1.2	19.80		
			3	0.60		0.6	1.08		
							20.88		
	15 kg per Sqm						15.00		
					Net Qty		313.20	107.72	33737.90
20	KSRB 7.10 : Providing and fixing in position aluminium windows and ventilators as per approved drawings with sliding shutters using double track window frame section of size 61.85x31.75mm. with 1.2mm thick, bottom section weight 0.695 kg/m, sides and top sections 1.3 mm. thick weight 0.659 kg/m; and shutter comprising top and bottom section of size 40mmx18mm, 1.25mm thick 0.417 kg./m; shutter outer side 40mmx18mm, 1.25mm.thick weight 0.417 kg/m, shutter interlock section 40mmx26.7mm, 1.1mm thick, weight 0.469 kg/m. the shutters mounted on nylon rollers with approved quality of fixtures such as aluminium handles tower bolts etc.; and providing and fixing 5.5mm. thick plain glass for shutters fitted with rubber beading aluminium sections including cutting to required length, joints mitred subdividing the frame tenonned and rivetted in the assembled frame stiffened with end clips at corners angles etc., and fixed to the walls, lintels, floor beams/cills as the case may be with necessary steel screws, raul plugs, or teak wood gatties including cutting masonry or concrete and making good the original surface using cement mortar, aluminium sections pretreated for removal of any Specification No. KBS -do- using aluminium section powdered coated to a minimum of 60-70 microns with exterior durable pure polyester grade powder of approved quality. P.No.34 It No.7.10 12/6/23								
	Ground Floor	SQM							
	Window M S Grill		11	1.50		1.2	19.80		
					Net Qty		19.80	4960.78	98223.44
21	KSRB 14.7-2 : Providing and laying red oxide flooring 40 mm thick, with an under layer of 30mm thick M-15 cement concrete, using broken granite metal of 12.5mm nominal size and top layer of 10mm thick plaster with 1:3 cement mortar mixed with red oxide (using 3.5 kg of red oxide per 50 kg of cement) finished with floating coat of neat cement mixed with red oxide (mix of same proportion), including cost of materials, labour, curing, complete as per specifications. Specification No. KBS 14.3 P.No.104 It No.14.9 12/6/23								
		Cum							
	Building Flooring		1	11.90	11.90		141.61	754.04	106779.60

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Contractor

Assistant Engineer

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Development of Dobhighat in Ward No.01
Detailed Measurements

25	KSRB 15-14.1 : Providing and applying two coats with oil bound washable distemper of approved brand and shade on wall surface including priming coat with distemper primer after throughly brooming the surface free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications. P.No.119 It No.15.49 15/6/23								
	Ground Floor								
	Internal plastering area	SQM							
						Net Qty	125.44	124.73	15646.13
26	KSRB 15-16.1 : Providing and finishing external walls in two coats with waterproof cement paint of approved brand and shade to give an even shade after throughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications. -do- with primer P.No.120 It No.15.53.2 15/6/23								
	Ground Floor								
	External plastering Qty	SQM							
			1						
						Net Qty	847.61	115.66	98034.28
27	KSRB 13-11.1: Over Head Synthetic Tanks - Providing, Placing on Terrace, Polyethylene storage tanks with manhole lid and suitable locking arrangements, making holes of suitable diametre for inlet,outlet and over flwo pipes including cost of all materials, labour, transport charges, HOM of euipments and testing complete as per specifications for 2000 Litres Capcity including cost of all materials, formwork, labour charges, HOM of Machineries, loading, unloading ,with all lead and lifts etc., compelte & as per specification and as directed by Engineer. BCSR Item No 13.78, Page No .94 15/6/23								
	Overhead Tank 2000 Lts								
			1				1	7742.21	7742.21

Contractor PMC Assistant Engineer Asst. Executive Engineer

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Contractor

Assistant Engineer

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BRUHAT BANGALORE MAHANAGARA PALIKE
Yelahanka zone
Development of Dobhighat in Ward No.01
Detailed Measurements

Sl. No.	Description of work	Unit	No.	Length	Breadth	Depth	Quantity	Rate	Amount
				m	m	m			
	ELECTRICAL WORKS Measurement taken on 19/6/23								
	Machinaries								
28	Industrial Washing Machine 100 Kg's with control panel (Model Id: NEIH100) Made out of S.S, Rotating Drum Dia/Lt.mm : 900/1250,Washing Speed in Rpm:38, Motor Power In Hp:3 Loading Type: Side-Top, Drive System: Belt, Type of Material: S.S 304, Operating System: Electrical, Heater: 18KW(Optional) (Approved Data Rate)								
	Dobhi Ghat	1				1.00			
						1.00	Each	1468484.63	1468484.63
29	Hydro Extractor 100Kg's (Model Id : NEI30) Made out of M.S & S.S Rotating Drum Dia/Ht:750/350mm , Extraction speed in Rpm:1000, Motor Power in HP:5 Drive system: Belt Type of Material: S.S 304, Brake System: Leg Brake(Manual), Operating System: Electrical. (Approved Data Rate)								
	Dobhi Ghat	1				1.00			
						1.00	Each	1549242.94	1549242.94
30	Tumble Dryer 100Kg's (Model Id : NEIT100)Made out of M.S & S.S Rotating, Drum Dia/Ht:1000/1300mm , Rotation speed in Rpm:38, Motor Power in HP:2, Blower Power in Hp: 1 Drive system: Belt ,Operating System: Electrical, Heater: 18KW. (Approved Data Rate)								
	Dobhi Ghat	1				1.00			
						1.00	Each	1429449.35	1429449.35
31	RECTANGULAR TABLES WITH BOILER for Ironing								
	Dobhi Ghat	1				1.00			
						1.00	Each	394499.92	394499.92

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EIRL-1	KSRB 10-3 : Providing and laying integral cement based waterproofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc., consisting of following application. (a) Applying and grouting a slurry coat of neat cement using 2.75 kg/sqm of cement admixed with proprietary water proofing compound conforming to IS:2645 over the RCC slab after cleaning the surface before treatment. (b) Laying cement concrete using broken brick bats 25mm to 100mm size with 50% of cement mortar 1:5 admixed with proprietary water proofing compound conforming IS:2645 over 20mm thick layer of cement mortar 1:5 admixed with proprietary water proofing compound to required slope and treating similarly the adjoining walls upto 300mm height including rounding off junctions of walls and slabs. (c) After two days of proper curing, applying a second coat of cement lurry admixed with proprietary water proofing compound (d) Finishing the surface with 20mm thick jointless cement mortar of mix 1:4 admixed with proprietary water proofing compound and finally finishing the surface with trowel and neat cement slurry and making of 300x300mm square. (e) The whole terrace so finished shall be flooded with water for a minimum period of two weeks for curing and for final test including cost of materials, labour complete as per specifications. (P.No. 68, I.No. 10.2 of PWD SR 2018-19)								
		SQM							
	Terrace		1	11.90	11.9		141.61		
	Chajja & Etc						40.50		
					Net Qty		**182.11**	**1108.21**	**201816.12**
EIRL-2	Providing and fixing MS hand Railing fro Balcony/Staircase, Etc. with 50mm dia MS Hallow pipes of 14 Gauge welded to 20mmx20mm MS rod placed vertically, spaced at 100mm at regular intervals of 600mm These vertical rods laterally tied to 3 horizontal rods spaced at equal interval. These assembly is fixed to concrete byusing expansion bolts and welding the same to reinforcement bars and making good the surface. All noints and swctions should be cut to length and welded and grinded wherever necessary Etc. including cost of materials, labour complete as per specifications. (P.No.44 , I.No. 7.35 of PWD SR 2018-19)								
		SQM							
	Staircase Hand Rail		1	14.75		1	14.75		
					Net Qty		**14.75**	3067.20	**45241.2**

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EIRL-3	Fabricating, providing and erecting in position Hot dip galvanised Gate. Using 72 X 72 X 4.8mm Sq. GI Pipe Frame with Top pipe bending in heavy duty hydraulic press with sand packing and hot bending to form double arch as per drawing profile, 20mm hot dip galvanised sq. rod for verticals at 150mm c/c, as shown in the drawing including providing hot dip galvanised forged ornamental design in between sq. rods and heads at top, middle and bottom. Intermediate supports of 75X12 mm and 50X6 mm arch bend to hot dip galvanised flats. The work is inclusive of throughing GI flat GI sq. rods, placing, welding all the joints including grinding, finishing metal putty, painting two coats enamel painting. The rate is inclusive of all materials like GI sq. pipe, GI sq. rods, GI forged designs etc., heavy duty hinges are made out of 75mm solid sq. block assembled with 20mm dia bearing in three places for each flop. Heavy Duty Locking arrangements at tow places including cost of labour, painting, erecting charges using hoist pulley cranes with all lead and lift, loading,								
		SQM							
	Main Gate		1	3.75		2.1	7.88		
	Gate 1		1	2.75		2.1	5.78		
					Net Qty		13.65	12475.00	170283.75
								Total	9164533.00
								GST charges 18%	1649615.94
								Grand Total	10814148.94

A.E.E. (Project)

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